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[Xinran Wang, Yoon-Chan Jhi, Sencun Zhu, Peng Liu](#)

 November 2009 **CCS '09**: Proceedings of the 16th ACM conference on Computer and comm

Publisher: ACM

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Along with the burst of open source projects, software theft (or plagiarism) has become a major concern to the healthiness of software industry. Software birthmark, which represents the unique fingerprint of a program, can be used for software ...

Keywords: dynamic analysis, software birthmark, software plagiarism, software theft

2 Temporal search: detecting hidden malware timebombs with virtual machines
[Jedidiah R. Crandall, Gary Wassermann, Daniela A. S. de Oliveira, Zhendong Su, S. Felix Wu](#)
 November 2006 **ASPLOS-XII**: Proceedings of the 12th international conference on Architectural support for programming languages and operating systems

Publisher: ACM

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Worms, viruses, and other malware can be ticking bombs counting down to a specific time. For example, delete files or download new instructions from a public web server. We propose a machine-based analysis technique to ...

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Keywords: malware, virtual machines, worms

Also published in:

 October 2006 **SIGOPS Operating Systems Review** Volume 40 Issue 5

 October 2006 **SIGARCH Computer Architecture News** Volume 34 Issue 5

 November 2006 **SIGPLAN Notices** Volume 41 Issue 11

3 AWE: improving software analysis through modular integration of static and dynamic analysis
[Ruben E. Brown, Roger Khazan, Michael Zhivich](#)

 June 2007 **PASTE '07**: Proceedings of the 7th ACM SIGPLAN-SIGSOFT workshop on Programming tools and engineering

Publisher: ACM

Full text available:  Pdf (938.44 KB)

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Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 54, Downloads (Overall): 229,

AWE is a prototype system for performing analysis of x86 executables in the absence of debugging information. It provides a modular infrastructure for integrating static and dynamic analysis into a single workflow. One of the major challenges ...

Keywords: dynamic analysis, malicious software analysis, static analysis

4 JavaScript instrumentation for browser security

 Dachuan Yu, Ajay Chander, Nayeem Islam, Igor Serikov

January 2007 **POPL '07: Proceedings of the 34th annual ACM SIGPLAN-SIGACT symposium on programming languages**

Publisher: ACM 

Full text available:  Pdf (706.68 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 306, Downloads (Overall): 127

It is well recognized that JavaScript can be exploited to launch browser-based security attacks. The challenge is to detect such attacks using program instrumentation. Untrusted JavaScript code goes through a series of transformations which identifies relevant operations, ...

Keywords: JavaScript, edit automata, program instrumentation, web browser

Also published in:

January 2007 **SIGPLAN Notices** Volume 42 Issue 1

5 A qualitative assessment of the efficacy of UML diagrams as a form of graphical documentation for program understanding

 Scott Tilley, Shihong Huang

October 2003 **SIGDOC '03: Proceedings of the 21st annual international conference on Documentation**

Publisher: ACM 

Full text available:  Pdf (274.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 104, Downloads (Overall): 181

Graphical documentation is often characterized as an effective aid in program understanding. However, the open question exactly which types of graphical documentation are most suitable for what understanding tasks (and in which ...

Keywords: Unified Modeling Language (UML), assessment, graphical documentation, program understanding

6 Learning to Detect and Classify Malicious Executables in the Wild

J. Zico Kolter, Marcus A. Maloof

December 2006 **The Journal of Machine Learning Research**, Volume 7

Publisher: MIT Press

Full text available:  Pdf (242.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 122, Downloads (Overall): 395

We describe the use of machine learning and data mining to detect and classify malicio appear in the wild. We gathered 1,971 benign and 1,651 malicious executables and enc example using n -grams of byte ...

7 Feature selection and policy optimization for distributed instruction placement using learning

 Katherine E. Coons, Behnam Robatmili, Matthew E. Taylor, Bertrand A. Maher, Doug Burge
October 2008 **PACT '08**: Proceedings of the 17th international conference on Parallel archi techniques

Publisher: ACM 

Full text available:  Pdf (382.26 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [inde](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 113, Downloads (Overall): 14

Communication overheads are one of the fundamental challenges in a multiprocessor s processors on a chip increases, communication overheads and the distribution of compi increasingly important performance ...

Keywords: compiler heuristics, genetic algorithms, instruction scheduling, machine lea

8 Passive network forensics: behavioural classification of network hosts based on co

 John McHugh, Ron McLeod, Yagishwari Nagaonkar
April 2008 **SI GOPS Operating Systems Review**, Volume 42 Issue 3

Publisher: ACM

Full text available:  Pdf (2.40 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [inde](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 197, Downloads (Overall): 31

Passive monitoring of the data entering and leaving an enterprise network can support objectives. We have developed analysis techniques for NetFlow data that use behaviou confirm individual host roles and ...

Keywords: behaviour, forensic, intrusion detection, intrusion prevention, network, on-peer, propagation prevention, security, traffic, virus, worm

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